





Center ducation

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## DC Current being tested for the Date **Data Center**

## **By Staff Writer**

Researchers at the U. S. Department of Energy's Lawr Laboratory (Berkeley Lab) have teamed with Silicon V Sun Microsystems, Intel, Cisco, and others to demon: that could save billions of dollars a year in the energy costs or operating data centers, as well as improve reliability and lengthen equi demonstration is taking place this summer at a test fa Microsystems in Newark, CA. More than 20 high-technic participating.

Eliminating power conversion losses by using DC (direct AC (alternating current—from the electricity grid) power electricity throughout the data center can trim the ener centers by 10 to 20 percent and improve reliability. Pre measurements from the demonstration center in Newa estimate.

Researchers in Berkeley Lab's Environmental Energy T (EETD) proposed this technology demonstration and the California Energy Commission's Public Interest Energy Research (PIER) program sponsored the POWER

The Berkeley Lab team, which consists of project lead Steve Greenberg, and Evan Mills, conceived the project oversight for the demonstration's planning and design, 1-800-658-0888 executed by private-sector firms ECOS Consulting and contract with Berkeley Lab. The partner companies hav More than just cables... advice, equipment, and staff to set up the demonstration facility.

Data centers are the backbone of the Internet, providing at a sentence of the Internet of websites and databases accessible over the World Wide Web, WARTSUSSorting virtually every larger sized private corporation and

Data center managers say that the rapid growth in Track severe weather down to requirements, and the growing cost of electricity, h concern.

According to a recent report by Berkeley Lab, SEMACT leaders ("High-Tech Means High Efficiency"), data c hours a day, seven days a week, have among the h energy-consuming equipment of any modern buildir

"They can use 100 times the electricity of a typical ( foot basis," says William Tschudi, the Berkeley Lab this project. "Energy costs of \$1 million per month are not uncommon in large" data centers that require megawatts of electricity.

Such factors as the rapid growth of the web, the increa networks to help geographically dispersed teams, and power has led to rapid growth in data centers and in the Facilities managers, corporate information services de PEOPLE Internet service providers are searching for ways to re-

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"We're excited to be able to demonstrate and evaluate the efficiency merits of two different data center DC power delivery approaches and expect our results can inform data center operators, facility designers and this global industry regarding efficient options for future designs," says My Ton of ECOS Consulting.

A number of strategies can be used by designers and managers of these facilities to decrease their power needs, such as optimizing airflows to get the most out of the cooling system, upgrading the energy efficiency of the

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